The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

Luke Goldworm, ADA

Suffolk County District Attorney's Office
By e-mail

February 20, 2012

Re: Comm. v. [redacted] State Lab no. [redacted]

ADA Goldworm,
Please find below a discovery package for the case noted above. The material is collated in the following manner:

1) the chemists' cvs
2) the Evidence Office receipt to the Boston Police
3) the inventory control card
4) the Drug Powder Analysis Form
5) the gas chromatography screen
6) the gas chromatography/mass spectrometry (gc/ms) data

If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

Michael Lawler
Senior Chemist

Cc: Kate Corbett

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits (e.g. strychnine in MDMA)

2005-2008 lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

Current Drug Trends – Multijurisdictional Drug Task Force Academy August 2009

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

DEA Special Testing Lab Seminar June 2011

Sigma-Aldrich LC/MS – New Applications Fall 2011

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S.,Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M.,Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003
MERRIMACK COLLEGE
Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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Employment

Chemist II State Laboratory Institute (March 2008-Present)
Massachusetts Department of Public Health
Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)
Massachusetts Department of Public Health
Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

Research Associate (September 2003 – August 2005)
SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)
MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

BostonPolice DEPARTMENT

DRUG RECEIPT

CC # [redacted]

BOOK # [redacted] 39

PAGE # 173

DESTRUCTION # _____

District/Unit C-6

Name & Rank of Arresting Officer Robert C. Young ID# 10249

DEFENDANT'S NAME	ADDRESS	CITY	STATE
[redacted]			

DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	LAB USE ONLY GROSS WEIGHT	LAB USE ONLY ANALYSIS NUMBER
Spoon with cooked Heroin	56.99 gm		[redacted]

To be completed by ECU personnel only

Name and Rank of Submitting Officer _____ ID# 9370

Received by _____ Date 5-28-10

ECU Control # _____

Corbett_email_PRR_008974

No. [redacted] Date Analyzed: 10/12/10

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: [redacted]

Amount:

Subst (RES)

No. Cont: 1 Cont: spoon

Date Rec'd: 05/28/2010

Gross Wt.: 56.99

No. Analyzed:

Net Weight:

Tests: Residue

5mg

Prelim: heroin

Findings: 2-MAC

heroin

DRUG POWDER ANALYSIS FORM

10/12/10

SAMPLE # [redacted] AGENCY Boston DCU ANALYST MJC

No. of samples tested: _____ [redacted] Evidence Wt. 56.99

PHYSICAL DESCRIPTION:

Spoon with residue

Gross Wt ( ): _____

Gross Wt ( ): _____

Pkg. Wt: _____

Net Wt: _____

OHAUS 2334 9-3-10
2g = 20.0000g
1g = 10.0000g
5g = 5.0001g
1g = 0.9999g

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate ( ) (-)

Marquis (+)

Froehde's (+)

Mecke's (+)

Microcrystalline Tests

Gold Chloride _____

TLTA ( ) _____

OTHER TESTS

GC (+) heroin

PRELIMINARY TEST RESULTS

RESULTS _____

DATE _____

GC/MS CONFIRMATORY TEST

RESULTS HEROIN

MS OPERATOR KAC

DATE 10/12/10

Revised 7/2005

Sequence: C:\CHEM32\1\SEQUENCE\DEFAULT.S

JMR 2-20-12

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 1	BLANK	ROUTINE	1	Sample	
2	Vial 2	HEROIN STD	ROUTINE	1	Sample	
3	Vial 3	BLANK	ROUTINE	1	Sample	
4	Vial 4	[redacted]	ROUTINE	1	Sample	
5	Vial 5	BLANK	ROUTINE	1	Sample	

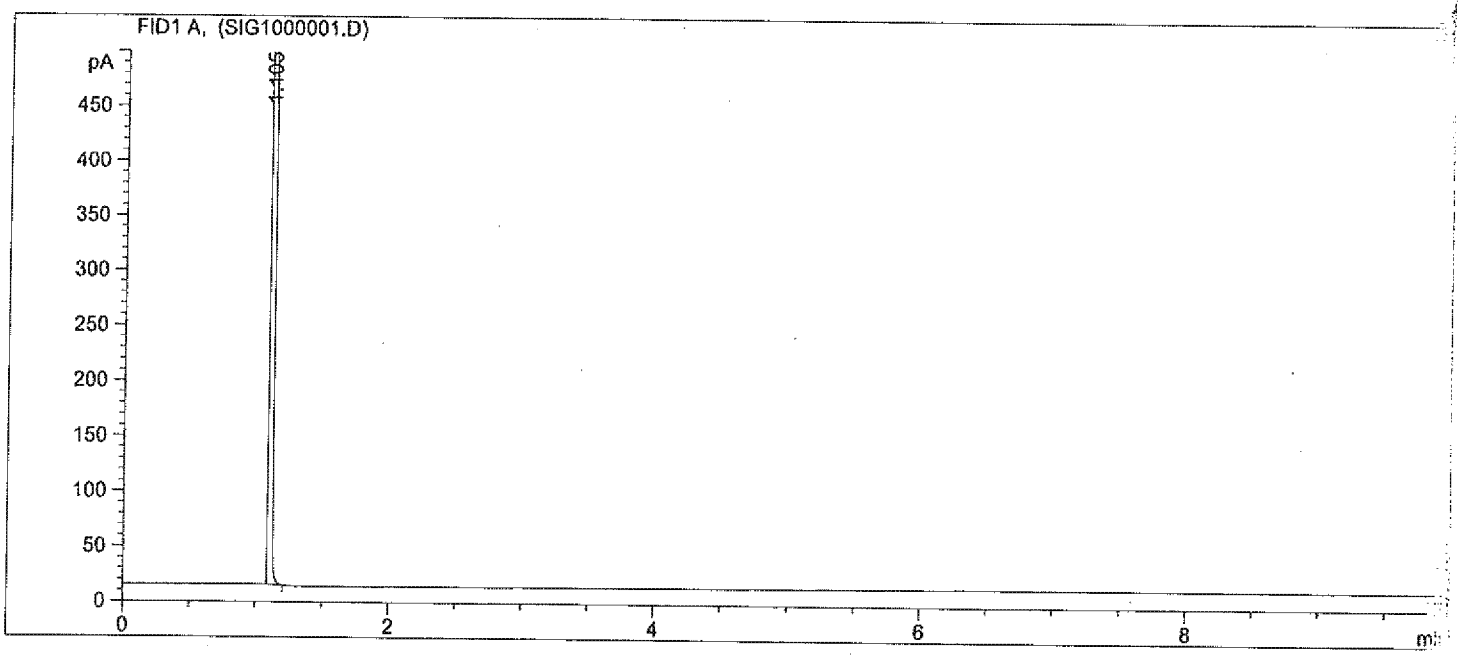
Sequence Table (Back Injector):

No entries - empty table!

Data File C:\CHEM32\1\DATA\SIG1000001.D
Sample Name: BLANK

Acq. Operator : ASD
Acq. Instrument : Drug Lab GC#4
Injection Date : 10/6/2010 1:25:45 PM
Seq. Line : 1
Location : Vial 1
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed : 7/28/2010 1:59:56 PM



Area Percent Report

Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

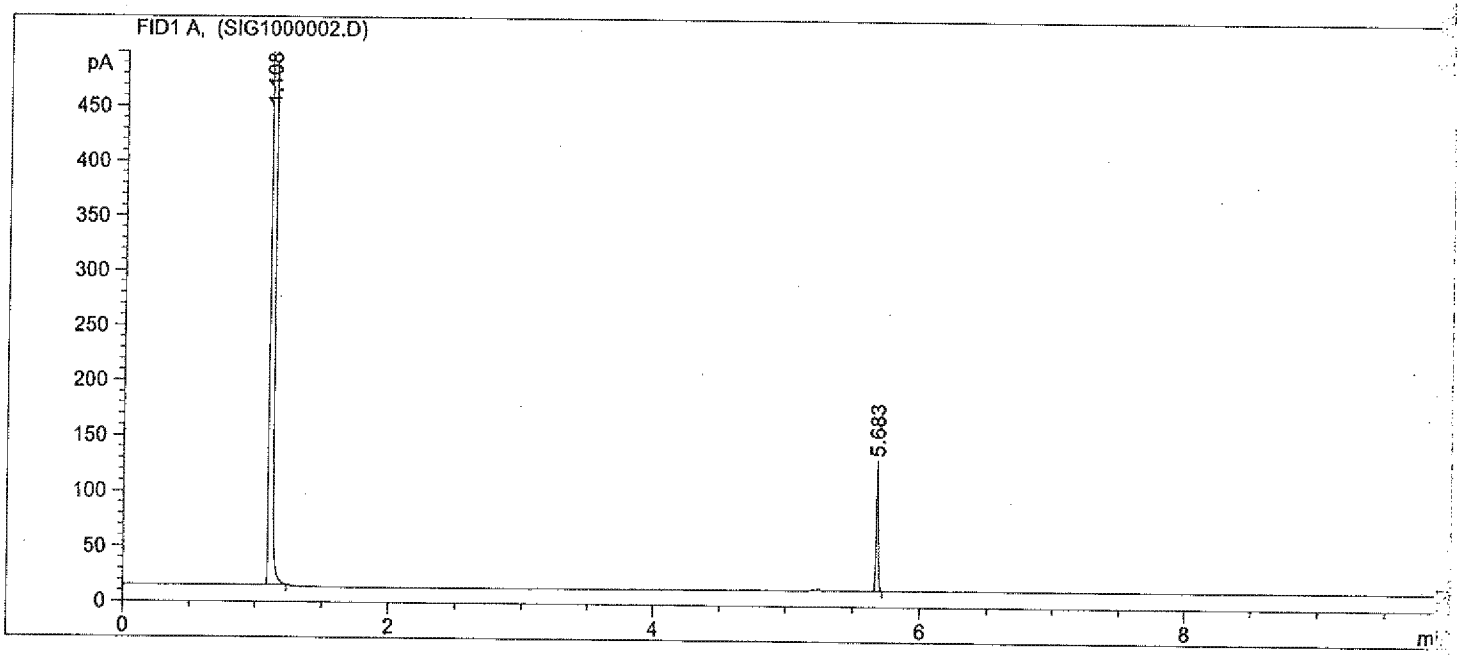
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.105	1	BB S	6.55781e4	6.96061e4	1.000e2
Totals :				6.55781e4	6.96061e4	

*** End of Report ***

Data File C:\CHEM32\1\DATA\SIG1000002.D
Sample Name: HEROIN STD

Acq. Operator : ASD
Acq. Instrument : Drug Lab GC#4
Injection Date : 10/6/2010 1:38:39 PM
Seq. Line : 2
Location : Vial 2
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed : 7/28/2010 1:59:56 PM



Area Percent Report

Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

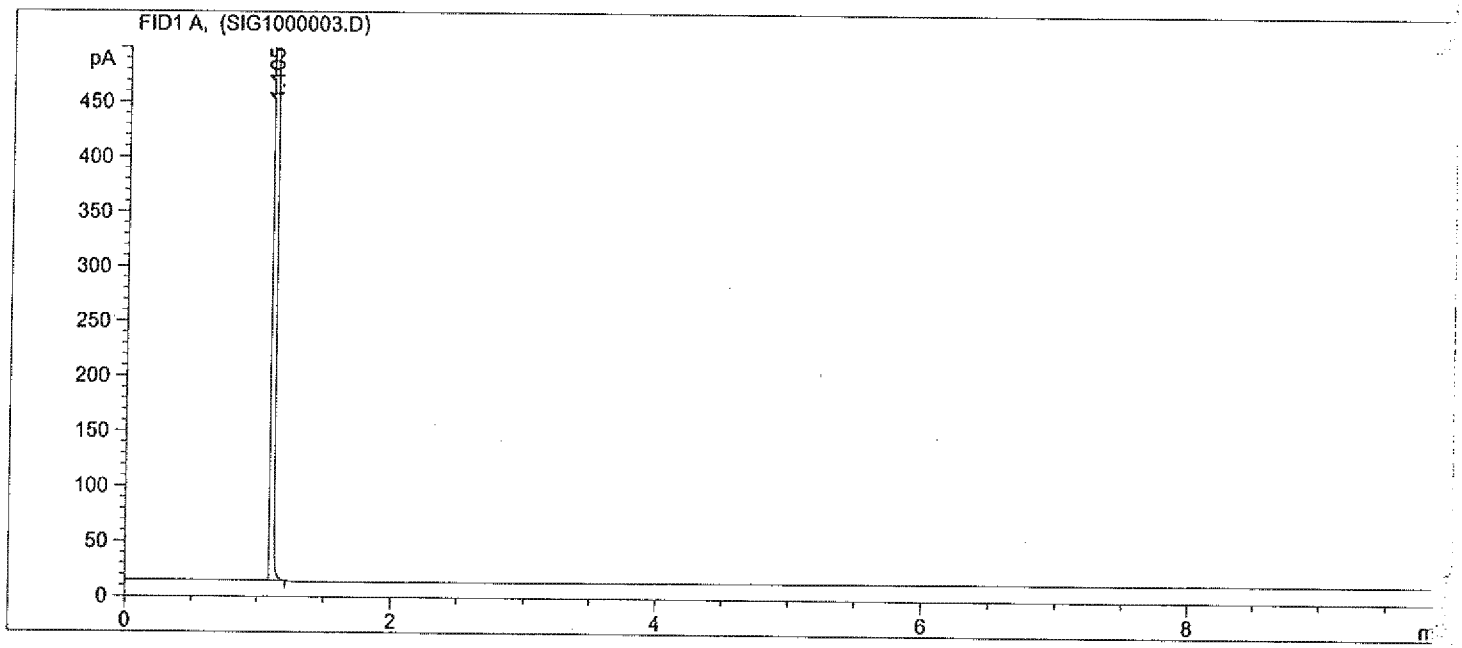
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.108	1	BB S	1.05671e5	1.13547e5	99.87665
2	5.683	1	BB	130.50673	116.18065	0.12335

Totals : 1.05801e5 1.13663e5

*** End of Report ***

Data File C:\CHEM32\1\DATA\SIG1000003.D
Sample Name: BLANK

Acq. Operator	: ASD	Seq. Line	: 3
Acq. Instrument	: Drug Lab GC#4	Location	: Vial 3
Injection Date	: 10/6/2010 1:51:39 PM	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\CHEM32\1\SEQUENCE\DEFAULT.S		
Method	: C:\CHEM32\1\METHODS\ROUTINE.M		
Last changed	: 7/28/2010 1:59:56 PM		



Area Percent Report

Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.105	1	BB S	6.45042e4	7.14715e4	1.000e2
Totals :				6.45042e4	7.14715e4	

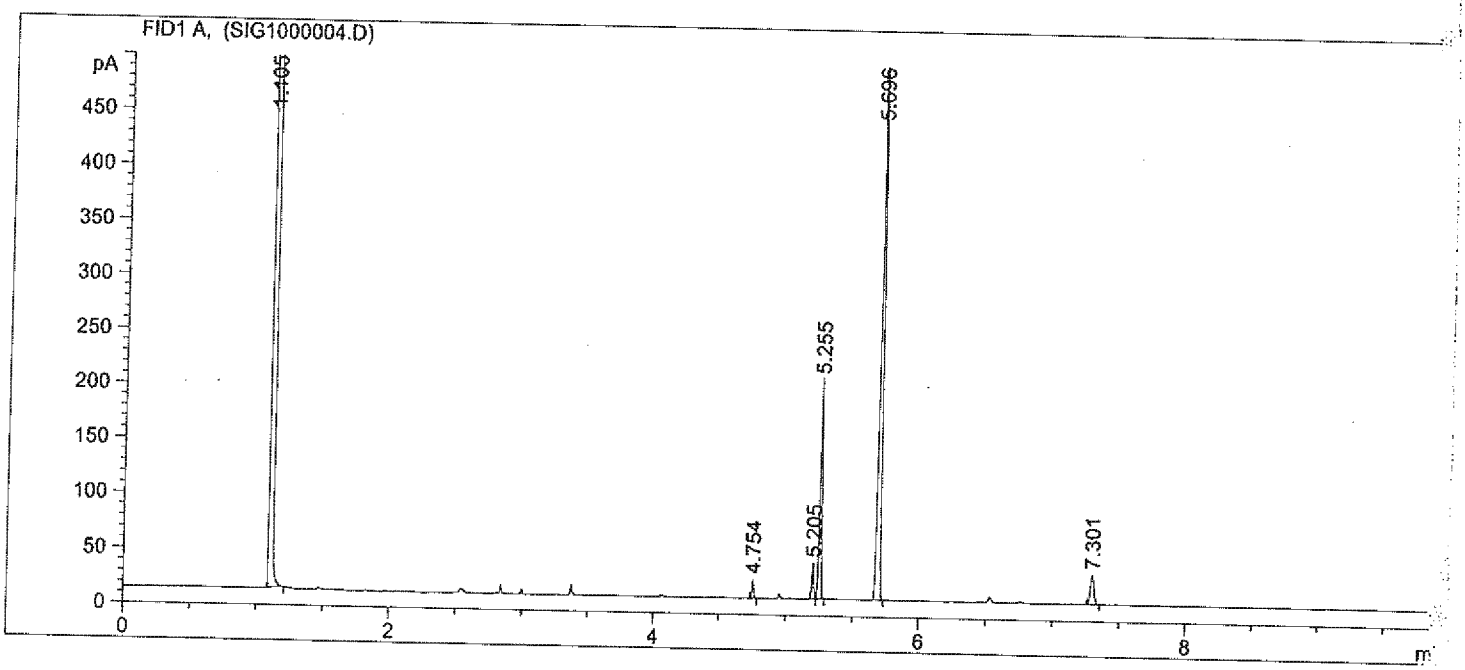
*** End of Report ***

Data File C:\CHEM32\1\DATA\SIG1000004.D
Sample Name: [redacted]

Acq. Operator : ASD
Acq. Instrument : Drug Lab GC#4
Injection Date : 10/6/2010 2:04:40 PM

Seq. Line : 4
Location : Vial 4
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed : 7/28/2010 1:59:56 PM



Area Percent Report

Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.105	1	BB S	6.02781e4	6.98928e4	98.38583
2	4.754	1	BB	14.20824	16.90112	0.02319
3	5.205	1	BV	32.88813	32.28829	0.05368
4	5.255	1	VB	213.23862	199.10071	0.34805
5	5.696	1	BB	676.14111	516.73309	1.10360
6	7.301	1	BB	52.47693	26.54356	0.08565
Totals :				6.12670e4	7.06843e4	

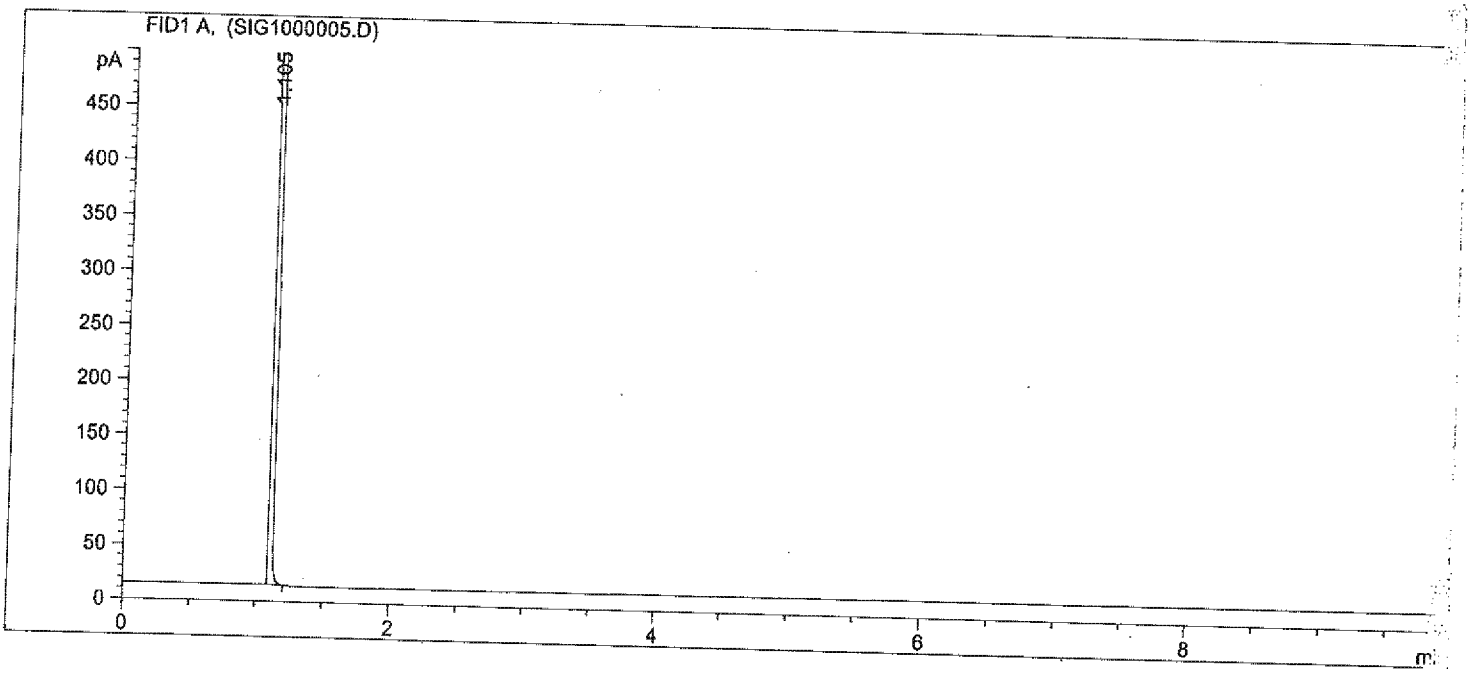
*** End of Report ***

Data File C:\CHEM32\1\DATA\SIG1000005.D
Sample Name: BLANK

Acq. Operator : ASD
Acq. Instrument : Drug Lab GC#4
Injection Date : 10/6/2010 2:17:40 PM

Seq. Line : 5
Location : Vial 5
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed : 7/28/2010 1:59:56 PM



Area Percent Report

Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

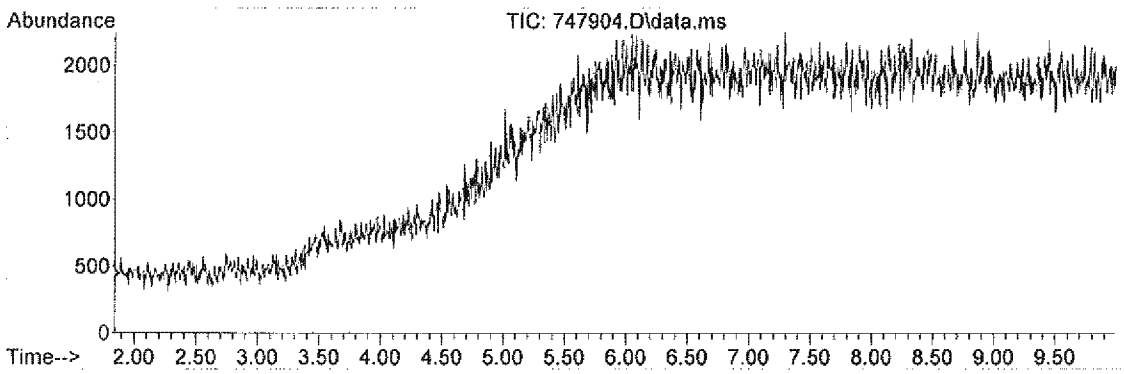
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.105	1	BB S	6.27408e4	7.11556e4	1.000e2
Totals :				6.27408e4	7.11556e4	

*** End of Report ***

Area Percent / Library Search Report

√KAC 2/17/12

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747904.D
Operator : KAC
Date Acquired : 8 Oct 2010 12:27
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

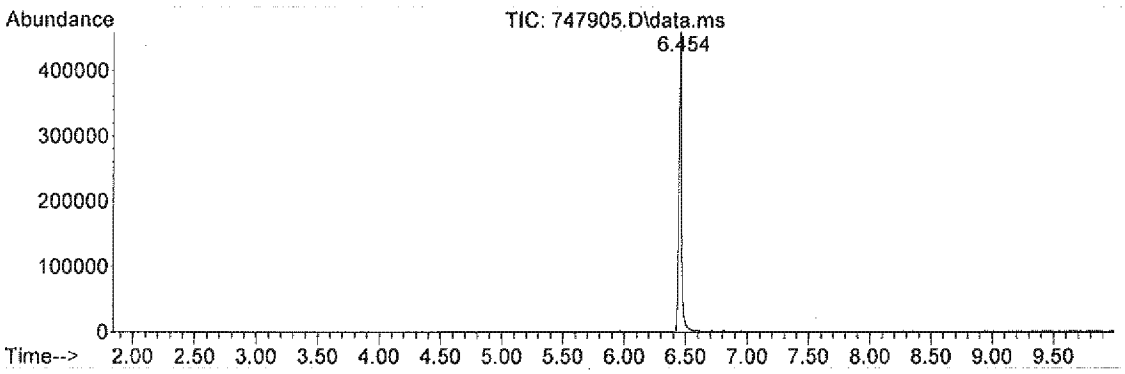


Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747905.D
Operator : KAC
Date Acquired : 8 Oct 2010 12:39
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

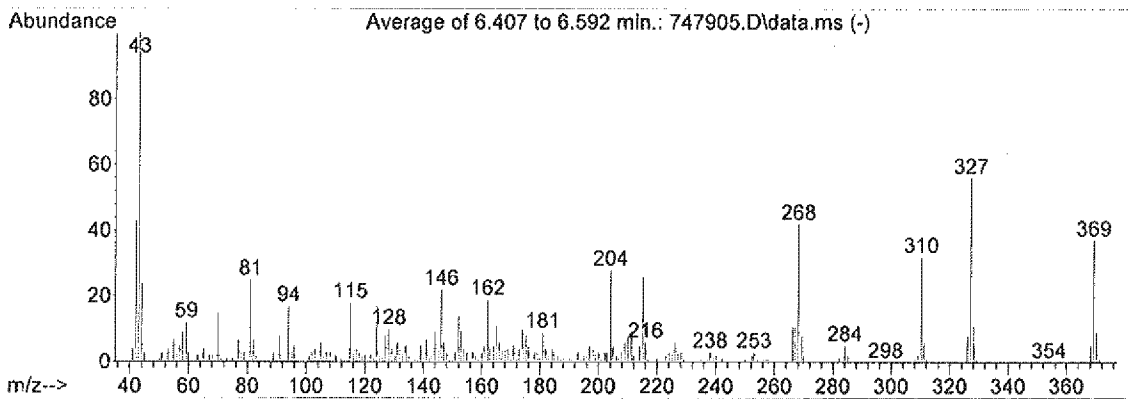


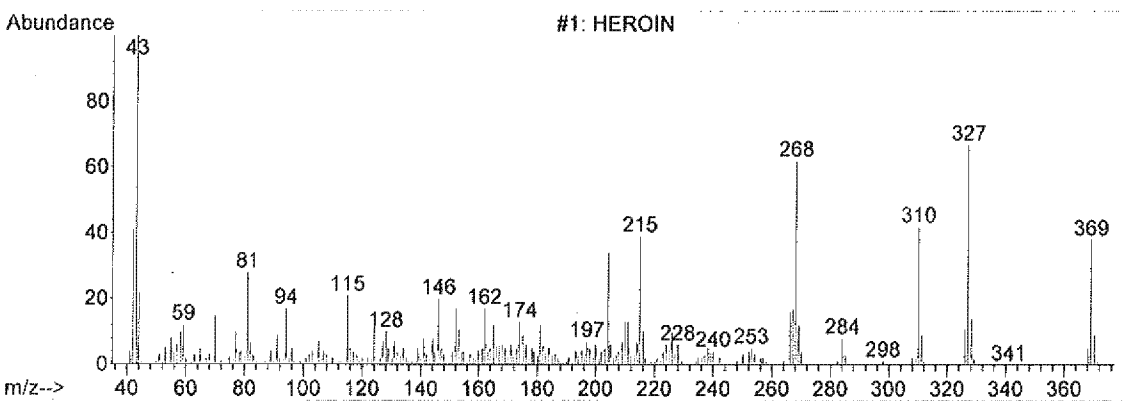
Ret. Time	Area	Area %	Ratio %
6.454	697085	100.00	100.00

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747905.D
Operator : KAC
Date Acquired : 8 Oct 2010 12:39
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

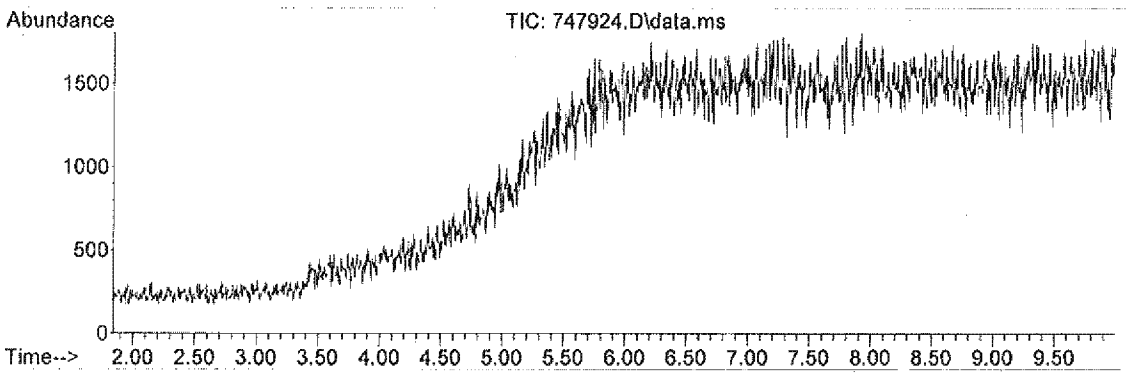
PK#	RT	Library/ID	CAS#	Qual
1	6.45	C:\Database\SLI.L HEROIN	000561-27-3	99





Area Percent / Library Search Report

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747924.D
Operator : KAC
Date Acquired : 8 Oct 2010 16:41
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

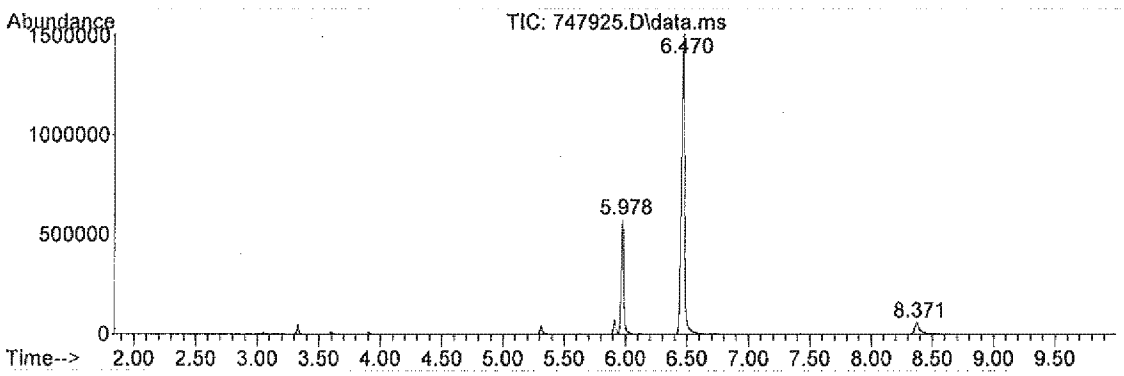


Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747925.D
Operator : KAC
Date Acquired : 8 Oct 2010 16:54
Sample Name : [redacted]
Submitted by : MGL
Vial Number : 25
AcquisitionMeth: DRUGS.M
Integrator : RTE

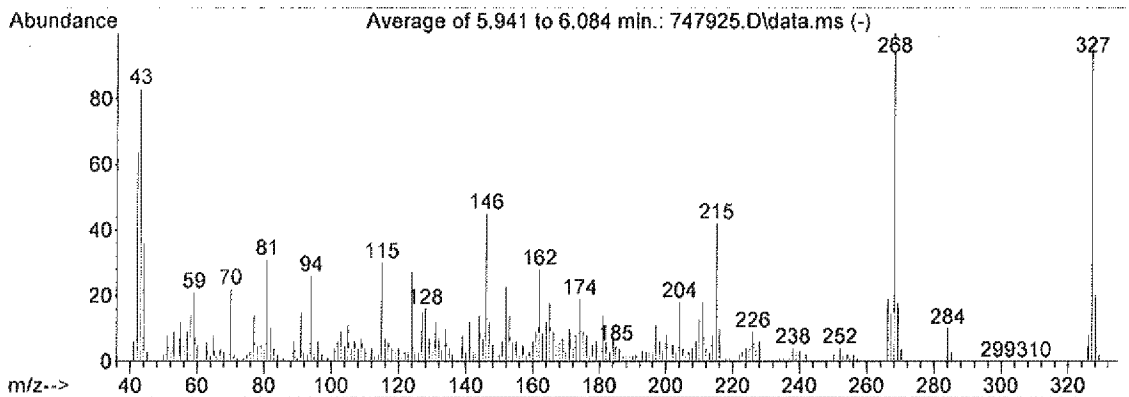


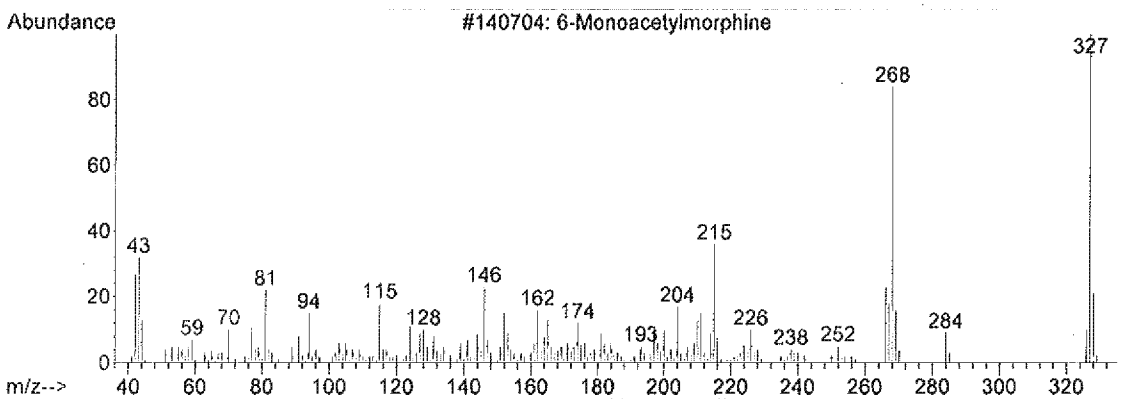
Ret. Time	Area	Area %	Ratio %
5.978	783023	20.90	28.08
6.470	2788073	74.42	100.00
8.371	175274	4.68	6.29

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747925.D
Operator : KAC
Date Acquired : 8 Oct 2010 16:54
Sample Name : [redacted]
Submitted by : MGL
Vial Number : 25
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.98	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

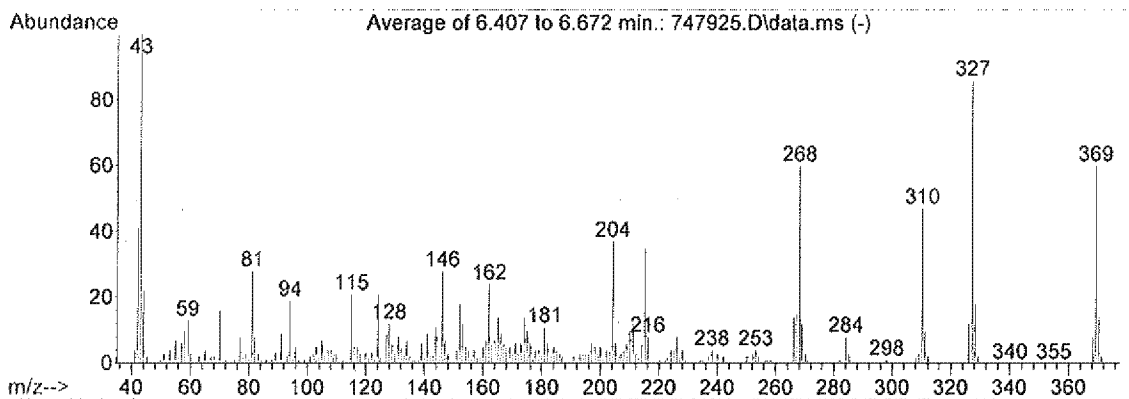


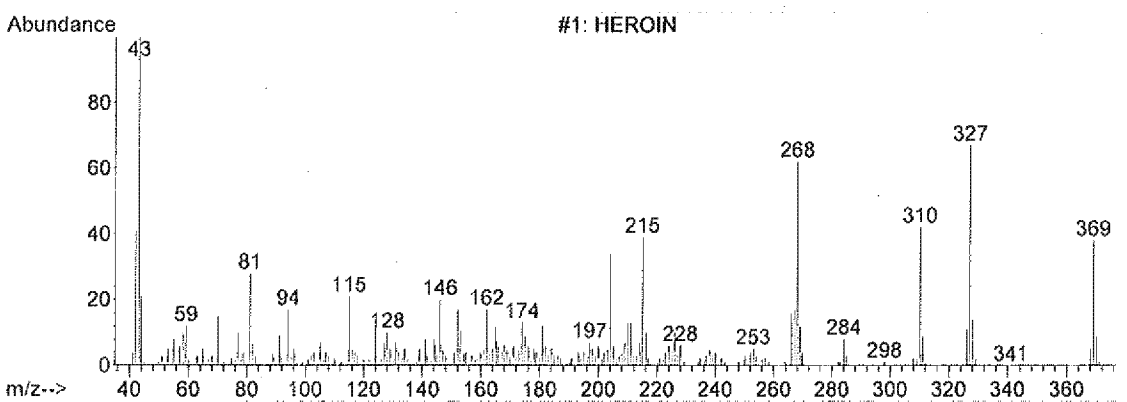


Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747925.D
Operator : KAC
Date Acquired : 8 Oct 2010 16:54
Sample Name : [redacted]
Submitted by : MGL
Vial Number : 25
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	6.47	C:\Database\SLI.L HEROIN	000561-27-3	99

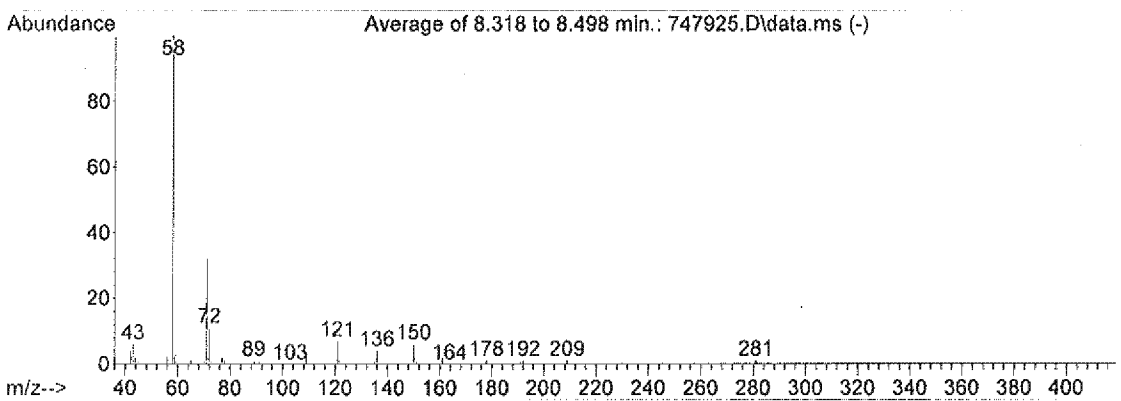


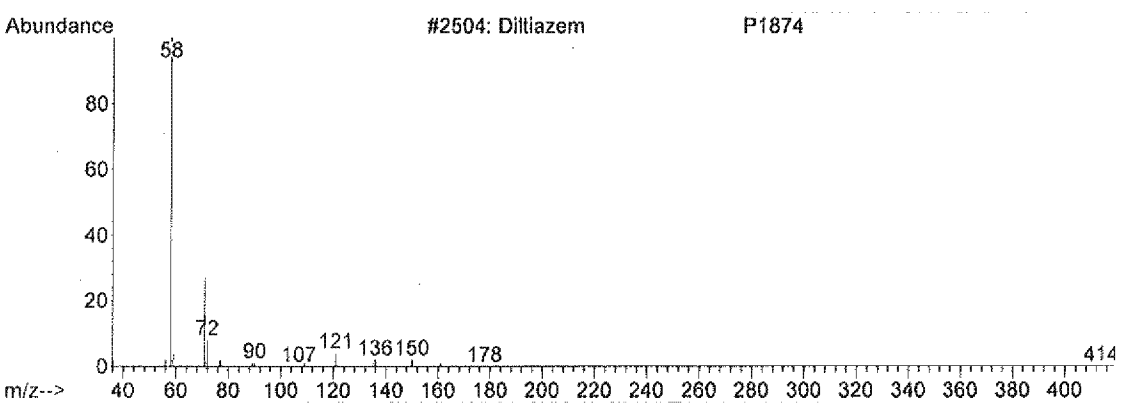


Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747925.D
Operator : KAC
Date Acquired : 8 Oct 2010 16:54
Sample Name : [redacted]
Submitted by : MGL
Vial Number : 25
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

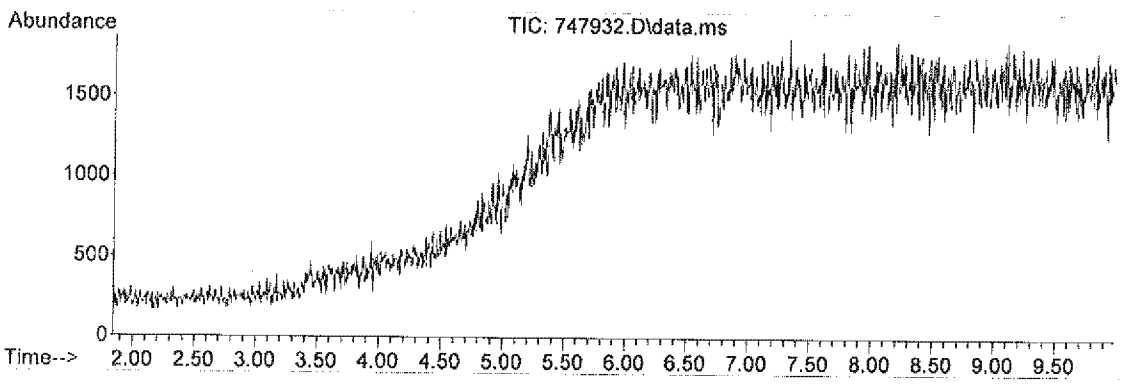
PK#	RT	Library/ID	CAS#	Qual
3	8.37	C:\Database\PMW_TOX2.L		
		Diltiazem	042399-41-7	86
		Diltiazem-M (desacetyl-)	000000-00-0	78
		Diltiazem-M (O-desmethyl-) AC	000000-00-0	72





Area Percent / Library Search Report

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747932.D
Operator : KAC
Date Acquired : 8 Oct 2010 18:22
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

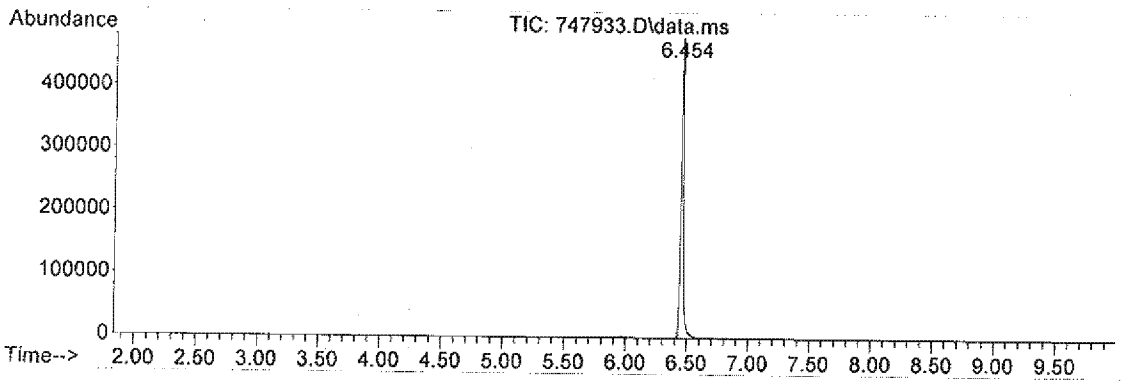


Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747933.D
Operator : KAC
Date Acquired : 8 Oct 2010 18:35
Sample Name : HEROIN STD
Submitted by :
Vial Number : 33
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.454	745330	100.00	100.00

Information from Data File:
File Name : F:\Q4-2010\SYSTEM7\10_08_10\747933.D
Operator : KAC
Date Acquired : 8 Oct 2010 18:35
Sample Name : HEROIN STD
Submitted by :
Vial Number : 33
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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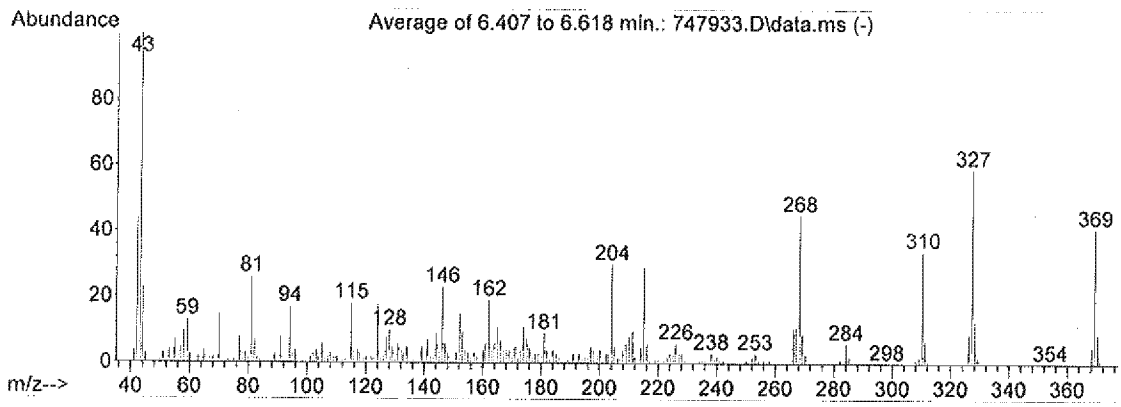

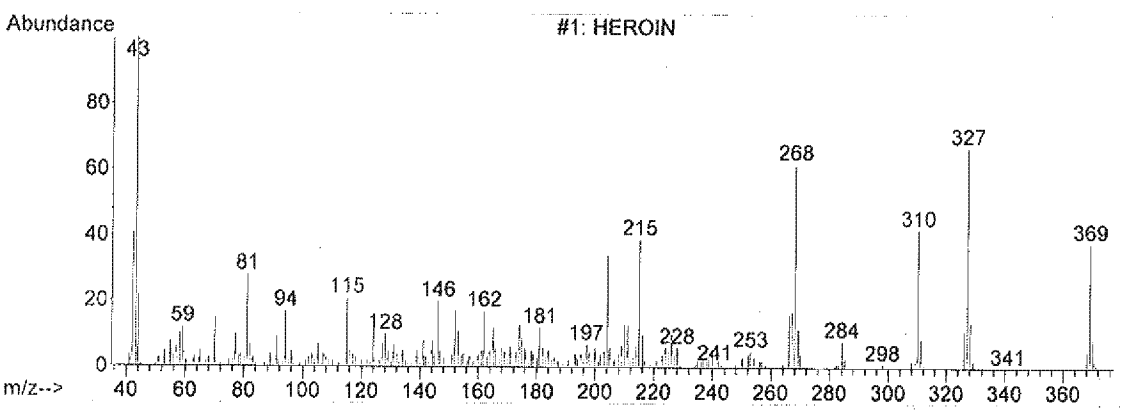

Last page..... ...no further data